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SOLAR OBSERVATIONS

SOLAR AND SKY RADIATION MEASUREMENTS DURING JULY, 1924

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For a description of instruments and exposures and an account of the method of obtaining and reducing the measurements, the reader is referred to the REVIEW for January and February, 1924, **53:** 42 and 113.

From Table 1 it is seen that solar radiation intensities averaged slightly above the July normal at Washington, D. C., and Madison, Wis., and slightly below at Lincoln, Nebr. There were an unusual number of clear days at the first two stations.

Table 2 shows that the total solar and sky radiation received on a horizontal surface averaged above the July normal at Washington and Lincoln, and slightly below at Madison.

Skylight polarization measurements made on 14 days at Washington give a mean of 51 per cent, with a maximum of 69 per cent on the 18th. Measurements obtained on 10 days at Madison give a mean of 60 per cent, with a maximum of 70 per cent on the 1st. The values for Madison are close to the average values for July, and those for Washington are somewhat above.

TABLE 1.—*Solar radiation intensities during July, 1924.*
[Gram-calories per minute per square centimeter of normal surface]
Washington, D. C.

Date	Sun's zenith distance: 8 a.m.	78.7°	75.7°	70.7°	60.0°	0.0°	60.0°	70.7°	75.7°	78.7°	Noon
	75th mer. time	Air mass: A. M.					P. M.				Local mean solar time
	e	5.0	4.0	3.0	2.0	[1]1.0	2.0	3.0	4.0	5.0	e
	mm.	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*mm.*
July 7	19.89					1.37					19.23
10	19.23		0.59	0.72	0.93						16.20
11	13.13		0.56		0.98	1.27	0.99	0.79	0.65	0.51	11.38
12	18.59		0.51	0.71	0.84						18.59
14	12.68	0.50	0.65	0.83	1.02	1.32					11.38
16	16.20	0.37	0.47	0.61	0.80	1.15					16.20
17	15.65	0.57	0.63	0.75	0.95	1.18					12.83
18	9.83	0.83	0.92	1.05	1.19	1.41	1.08				8.48
21	16.79				0.76						16.70
23	19.23				0.98		1.10	0.91	0.78		14.60
24	14.10		0.71	0.81	0.95	1.23					13.61
26	10.97				1.12						9.14
28	11.81	0.57	0.67	0.78	0.97	1.20					12.24
29	14.10			0.59	0.91	1.16					14.10
30	15.65			0.48	0.72						13.13
Means		0.57	0.63	0.73	0.94	1.25	1.06	(0.85)	(0.72)	(0.51)	
Departures		±0.00	−0.03	−0.03	+0.05	+0.08	+0.08	+0.06	+0.04	+0.13	

[1] Extrapolated.

TABLE 1.—*Solar Radiation intensities during July, 1924*—Cont'd.
[Gram-calories per minute per square centimeter of normal surface]
Madison, Wis.

Date	Sun's zenith distance: 8 a.m.	78.7°	75.7°	70.7°	60.0°	0.0°	60.0°	70.7°	75.7°	78.7°	Noon
	75th mer. time	Air mass: A. M.					P. M.				Local mean solar time
	e	5.0	4.0	3.0	2.0	[1]1.0	2.0	3.0	4.0	5.0	e
	mm.	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*mm.*
July 1	8.81			1.10	1.25						7.87
2	9.47		0.90	1.03	1.19	1.38					7.87
3	8.48			1.00	1.18	1.39					8.81
10	11.81				1.04	1.35	1.01				10.59
15	9.83				1.21	1.32					12.68
16	13.13				0.95						16.79
17	8.81				1.27	1.46					9.14
22	13.13				1.18	1.35					13.61
23	14.10				1.10	1.35					13.61
28	14.60				1.06						17.37
31	9.14					1.32					10.59
Means			(0.90)	1.04	1.14	1.36	(1.01)				
Departures			+0.13	+0.14	+0.10	0.09	+0.02				

Lincoln, Nebr.

July 3	8.48			0.91	1.12	1.38					6.02
7	8.56			0.62	0.78						9.14
10	10.59		0.84	0.99	1.20	1.43					8.48
12	14.10			0.98	1.11						16.79
14	10.59		0.69	0.86	0.92						9.83
15	13.13		0.76	0.90	1.06	1.28					15.65
23	15.11				1.08						19.89
25	10.97				1.24						9.14
26	12.24		0.80	0.93	1.09	1.27					12.68
30	16.79				0.99	1.24					21.28
Means			0.77	0.88	1.06	1.32					
Departures			−0.03	−0.02	−0.02	−0.01					

TABLE 2.—*Solar and sky radiation received on a horizontal surface*

Week beginning—	Average daily radiation: Washington	Madison	Lincoln	Chicago	New York	Average daily departure from normal: Washington	Madison	Lincoln
1924	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*
July 2	366	500	621	485	419	−116	−36	+43
9	577	552	623	419	516	+96	+32	+40
16	585	519	520	476	506	+110	+7	−51
23	601	467	625	447	540	+137	−23	+79
Excess or deficiency since first of year on July 29						+367	−7,078	+2,758